

Flood Control Project Maintenance
2011 Structure Summary Report
Overall Unit and Item Ratings

Madera County FCWCA

Ash And Berenda Slough Control Structures

Overall Unit Rating	Rated Item	Item Rating
A	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	A
	Encroachments	A
	Culverts: Inlets / Outlets	A
	Culverts: Breaks / Holes / Cracks	A
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	N
	Sluice/Slide Gates	A
	Electric Gate Operators	N
	Manual Gate Operators	N
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	A
	Closure Structures	A
	Trash Rakes	N
	Other Metallic Items	A
	Monolith Joints	N
	Safety	M

Fresno River Diversion Weir

Overall Unit Rating	Rated Item	Item Rating
A	Vegetation & Obstructions	M
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	A
	Encroachments	A
	Culverts: Inlets / Outlets	N
	Culverts: Breaks / Holes / Cracks	A
	Metal Pipes	N
	Trash Racks	N
	Flap Gates	A
	Sluice/Slide Gates	A
	Electric Gate Operators	N
	Manual Gate Operators	A
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	A
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	N
	Monolith Joints	N
	Safety	A

Flood Control Project Maintenance
Unit Cover Sheet
2011 Structure Inspection Results

Madera County FCWCA

Structure
Ash And Berenda Slough Control Structures

Structure Rating	A
Date of Inspection	7/12/2011
DWR Inspector	Herman Phillips
Accompanied By	Jay Pettigrew Plumas Co.
	No One No One

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2011

Madera County FCWCA

Structure						Structure Length	Inspection Start/End	Inspector
Ash And Berenda Slough Control Structures							07/12/2011 07/12/2011	Herman Phillips

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	0.00	Structures	Photo Documentation			Inspector Comments: Photo # 1 Berenda Slough Control Structure upstream side of Structure. Photo #2 Berenda Slough Control Structure downstream side of Structure. 37.157904 -120.124165.	37.157904 ° -120.124165 °	37.143520 ° -120.162171 °	1 Y
2	0.00	0.00	Structures	Vegetation & Obstructions		A	Inspector Comments: No vegetation on the upstream side of Berenda Slough Control Structure.	37.157904 ° -120.124165 °	37.143520 ° -120.162171 °	2
3	0.00	0.00	Structures	Shoaling / Sedimentation		A	Inspector Comments: No shoaling or sedimentation present at the Berenda Slough Control Structure.	37.157904 ° -120.124165 °	37.143520 ° -120.162171 °	3
4	0.00	0.00	Structures	Erosion / Bank Caving		A	Inspector Comments: No active erosion or bank caving observed on the landward or on the riverward side of the levee.	37.157904 ° -120.124165 °	37.143520 ° -120.162171 °	4
5	0.00	0.00	Structures	Revetments		A	Inspector Comments: Existing riprap protection is properly maintained and is undamaged. Riprap clearly visible.	37.157904 ° -120.124165 °	37.143520 ° -120.162171 °	5
6	0.00	0.00	Structures	Encroachments		A	Inspector Comments: No Trash, debris, excavation, structures, or other obstructions present within the project easement area.	37.157904 ° -120.124165 °	37.143520 ° -120.162171 °	6
7	0.00	0.00	Structures	Culverts: Inlets / Outlets		A	Inspector Comments: There is little or no debris, sediment or vegetation blocking the culverts, inlets, sump or discharge areas. The channel capacity for designed flow is not affected.	37.157904 ° -120.124165 °	37.143520 ° -120.162171 °	7
8	0.00	0.00	Structures	Culverts: Breaks / Holes / Cracks		A	Inspector Comments: There are no breaks, holes, cracks in the culvert that would result in significant water leakage.	37.157904 ° -120.124165 °	37.143520 ° -120.162171 °	8
9	0.00	0.00	Structures	Metal Pipes		N	Inspector Comments: This item does not apply to this inspection.	37.157904 ° -120.124165 °	37.143520 ° -120.162171 °	9
10	0.00	0.00	Structures	Trash Racks		N	Inspector Comments: This item does not apply to this inspection.	37.157904 ° -120.124165 °	37.143520 ° -120.162171 °	10
11	0.00	0.00	Structures	Flap Gates		N	Inspector Comments: This item does not apply to this inspection.	37.157904 ° -120.124165 °	37.143520 ° -120.162171 °	11
12	0.00	0.00	Structures	Sluice/Slide Gates		A	Inspector Comments: Gates open and close freely with minor leakage. Sill is free of sediment and other obstructions. Gates and lifters have been maintained.	37.157904 ° -120.124165 °	37.143520 ° -120.162171 °	12

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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CO : Completely Obstructing
N : Not Inspected, see Inspector Comment
C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2011

Madera County FCWCA

Structure						Structure Length	Inspection Start/End	Inspector
Ash And Berenda Slough Control Structures							07/12/2011 07/12/2011	Herman Phillips

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
13	0.00	0.00	Structures	Electric Gate Operators		N	Inspector Comments: This item does not apply to this inspection.	37.157904 ° -120.124165 °	37.143520 ° -120.162171 °	13
14	0.00	0.00	Structures	Manual Gate Operators		N	Inspector Comments: This item does not apply to this inspection.	37.157904 ° -120.124165 °	37.143520 ° -120.162171 °	14
15	0.00	0.00	Structures	Concrete Surfaces		A	Inspector Comments: Negligible spalling, scaling or cracking.	37.157904 ° -120.124165 °	37.143520 ° -120.162171 °	15
16	0.00	0.00	Structures	Concrete Tilting / Settlement		A	Inspector Comments: There are no significant areas of tilting, sliding or settlement that would endanger the integrity of the project.	37.157904 ° -120.124165 °	37.143520 ° -120.162171 °	16
17	0.00	0.00	Structures	Concrete Foundations		A	Inspector Comments: No scouring / erosion or undermining near the structure.	37.157904 ° -120.124165 °	37.143520 ° -120.162171 °	17
18	0.00	0.00	Structures	Security Fencing		A	Inspector Comments: Safety / security fencing is good condition and provides protection against falling or unauthorized access. Gates open and close freely, locks are in place, and there is little corrosion on metal parts.	37.157904 ° -120.124165 °	37.143520 ° -120.162171 °	18
19	0.00	0.00	Structures	Closure Structures		A	Inspector Comments: Closure structure in good repair. Placing equipment, stoplogs, and other materials are readily available at all times. Components of closure clearly marked and installation instructions / procedures readily available.	37.157904 ° -120.124165 °	37.143520 ° -120.162171 °	19
20	0.00	0.00	Structures	Trash Rakes		N	Inspector Comments: This item does not apply to this inspection.	37.157904 ° -120.124165 °	37.143520 ° -120.162171 °	20
21	0.00	0.00	Structures	Other Metallic Items		A	Inspector Comments: All metal parts are protected from corrosion damage, and show no rust or deterioration that would cause a safety concern.	37.157904 ° -120.124165 °	37.143520 ° -120.162171 °	21
22	0.00	0.00	Structures	Monolith Joints		N	Inspector Comments: This item does not apply to this inspection.	37.157904 ° -120.124165 °	37.143520 ° -120.162171 °	22
23	0.00	0.00	Structures	Safety		M	Inspector Comments: Minor safety hazards are present, but do not pose an immediate threat to the structure or personnel at the structure. Corrections should be made prior to the next annual inspection. 37.143520 - 120.162171	37.157904 ° -120.124165 °	37.143520 ° -120.162171 °	23 Y

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2011

Madera County FCWCA

Structure	Structure Length	Inspection Start/End	Inspector
Ash And Berenda Slough Control Structures		07/12/2011 07/12/2011	Herman Phillips

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation

Berenda Slough Control Structure standing on the upstream side of structure. Photo taken 7-12-2011

phillips_t_20110906_013.jpg



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation

Berenda Slough Looking at the downstream side of Structure. Photo taken 7-12-2011.

phillips_t_20110906_014.jpg



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation

Ash Slough Control Structure standing on upstream side of structure. 37.143520 - 120.162171

phillips_t_20110906_015.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2011

Madera County FCWCA

Structure	Structure Length	Inspection Start/End	Inspector
Ash And Berenda Slough Control Structures		07/12/2011 07/12/2011	Herman Phillips

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation

Ash Slough Control Structure looking at the downstream side of structure. Photo taken 7-12-2011

phillips_t_20110906_016.jpg



Levee Mile Report Line	23
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Safety

Ash Slough Control Structure show some damage timbers along the cross walk.

phillips_t_20110906_017.jpg



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Flood Control Project Maintenance
Unit Cover Sheet
2011 Structure Inspection Results

Madera County FCWCA

Structure
Fresno River Diversion Weir

Structure Rating	A
Date of Inspection	7/12/2011
DWR Inspector	Herman Phillips
Accompanied By	Paul Casillas DWR Sutter Yard
	No One No One

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2011

Madera County FCWCA

Structure						Structure Length	Inspection Start/End	Inspector
Fresno River Diversion Weir							07/12/2011 07/12/2011	Herman Phillips

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	0.00	Structures	Photo Documentation				36.967930 ° -120.255680 °	36.967930 ° -120.255680 °	1 Y
2	0.00	0.00	Structures	Vegetation & Obstructions		M	Inspector Comments: There is a build up of vegetation on the downstream side of the deflectors within the channel of the Fresno River and on the left bank (unit 6) there is buildup of veg. growth inside the security fence area on the bank.	36.967930 ° -120.255680 °	36.967930 ° -120.255680 °	2 Y
3	0.00	0.00	Structures	Shoaling / Sedimentation		A	Inspector Comments: No shoaling or sedimentation present.	36.967930 ° -120.255680 °	36.967930 ° -120.255680 °	3
4	0.00	0.00	Structures	Erosion / Bank Caving		A	Inspector Comments: There was no presence of erosion at this structure during my inspection 7-12-2011	36.967930 ° -120.255680 °	36.967930 ° -120.255680 °	4
5	0.00	0.00	Structures	Revetments		A	Inspector Comments: Existing riprap protection is properly maintained and is undamaged. Riprap clearly visible.	36.967930 ° -120.255680 °	36.967930 ° -120.255680 °	5
6	0.00	0.00	Structures	Encroachments		A	Inspector Comments: No Encroachments observed during this inspection	36.967930 ° -120.255680 °	36.967930 ° -120.255680 °	6
7	0.00	0.00	Structures	Culverts: Inlets / Outlets		N	Inspector Comments: This item does not apply to this inspection.	36.967930 ° -120.255680 °	36.967930 ° -120.255680 °	7
8	0.00	0.00	Structures	Culverts: Breaks / Holes / Cracks		A	Inspector Comments: There are no breaks, holes, cracks in the culvert that would result in significant water leakage.	36.967930 ° -120.255680 °	36.967930 ° -120.255680 °	8
9	0.00	0.00	Structures	Metal Pipes		N	Inspector Comments: This item does not apply to this inspection.	36.967930 ° -120.255680 °	36.967930 ° -120.255680 °	9
10	0.00	0.00	Structures	Trash Racks		N	Inspector Comments: There is no trash racks at this structure.	36.967930 ° -120.255680 °	36.967930 ° -120.255680 °	10
11	0.00	0.00	Structures	Flap Gates		A	Inspector Comments: Flap gates open and close easily with minimal leakage. Gates show no corrosion damage and have been maintained.	36.967930 ° -120.255680 °	36.967930 ° -120.255680 °	11
12	0.00	0.00	Structures	Sluice/Slide Gates		A		36.967930 ° -120.255680 °	36.967930 ° -120.255680 °	12
13	0.00	0.00	Structures	Electric Gate Operators		N	Inspector Comments: This item does not apply to this inspection.	36.967930 ° -120.255680 °	36.967930 ° -120.255680 °	13

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2011

Madera County FCWCA

Structure	Structure Length	Inspection Start/End	Inspector
Fresno River Diversion Weir		07/12/2011 07/12/2011	Herman Phillips

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
14	0.00	0.00	Structures	Manual Gate Operators		A	Inspector Comments: All manual gate operators are in good working condition and are capable of opening and closing the gate properly. Preventative maintenance is being performed and the system is tested periodically. All manual gate operators are in good working condition .	36.967930 ° -120.255680 °	36.967930 ° -120.255680 °	14
15	0.00	0.00	Structures	Concrete Surfaces		A	Inspector Comments: Negligible spalling, scaling or cracking.	36.967930 ° -120.255680 °	36.967930 ° -120.255680 °	15
16	0.00	0.00	Structures	Concrete Tilting / Settlement		A	Inspector Comments: There are no significant areas of tilting, sliding or settlement that would endanger the integrity of the project.	36.967930 ° -120.255680 °	36.967930 ° -120.255680 °	16
17	0.00	0.00	Structures	Concrete Foundations		A	Inspector Comments: No scouring / erosion or undermining near the structure.	36.967930 ° -120.255680 °	36.967930 ° -120.255680 °	17
18	0.00	0.00	Structures	Security Fencing		A	Inspector Comments: Security fencing is in good condition.	36.967930 ° -120.255680 °	36.967930 ° -120.255680 °	18
19	0.00	0.00	Structures	Closure Structures		N	Inspector Comments: This item does not apply to this inspection.	36.967930 ° -120.255680 °	36.967930 ° -120.255680 °	19
20	0.00	0.00	Structures	Trash Rakes		N	Inspector Comments: There is no trash rack at this Structure.	36.967930 ° -120.255680 °	36.967930 ° -120.255680 °	20
21	0.00	0.00	Structures	Other Metallic Items		N	Inspector Comments: This item does not apply to this inspection.	36.967930 ° -120.255680 °	36.967930 ° -120.255680 °	21
22	0.00	0.00	Structures	Monolith Joints		N	Inspector Comments: This item does not apply to this inspection.	36.967930 ° -120.255680 °	36.967930 ° -120.255680 °	22
23	0.00	0.00	Structures	Safety		A	Inspector Comments: Safety hardware installed. Adequate protection for fall hazards exist. No hazardous conditions that might affect the operation of the structure exist.	36.967930 ° -120.255680 °	36.967930 ° -120.255680 °	23

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2011

Madera County FCWCA

Structure	Structure Length	Inspection Start/End	Inspector
Fresno River Diversion Weir		07/12/2011 07/12/2011	Herman Phillips

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation

Fresno River Diversion Weir viewed from Rd. 16 bridge crossing, looking back upstream towards the unit 5 right bank levee. Photo taken 7-12-2011.

phillips_t_20110901_001.jpg



Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Vegetation & Obstructions

This photo here shows the vegetation build up near the weir deflectors, there is some tulies developing on the upstream side left bank of the structure that need to be removed.

phillips_t_20110902_007.jpg



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N : Not Inspected, see Inspector Comment

C : Corrected